

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 1017881847A
Source: JF100
Date Processed by STIC: 12/8/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 1017881847A

CRF Edit Date: 12/18/06
Edited by: Xe

_____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

_____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

✓ Deleted: ✓ invalid beginning/end-of-file text ; ____ page numbers

_____ Inserted mandatory headings/numeric identifiers, specifically:

_____ Moved responses to same line as heading/numeric identifier, specifically:

_____ Other:



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/788,847A

DATE: 12/13/2006
TIME: 16:15:05

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\12132006\J788847A.raw

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3 <110> APPLICANT: Nakamura, Yusuke
4       Furukawa, Yoichi
6 <120> TITLE OF INVENTION: Gene and Protein Relating to Hepatocellular
Carcinoma and Methods
7       of Use Thereof
9 <130> FILE REFERENCE: 25371-021 CIP
11 <140> CURRENT APPLICATION NUMBER: US 10/788,847A
12 <141> CURRENT FILING DATE: 2004-02-27
14 <150> PRIOR APPLICATION NUMBER: PCT/JP02/09876
15 <151> PRIOR FILING DATE: 2002-09-25
17 <150> PRIOR APPLICATION NUMBER: US 60/324,261
18 <151> PRIOR FILING DATE: 2001-09-25
20 <150> PRIOR APPLICATION NUMBER: US 60/391,666
21 <151> PRIOR FILING DATE: 2002-06-26
23 <150> PRIOR APPLICATION NUMBER: CASN 2,399,569
24 <151> PRIOR FILING DATE: 2002-08-23
26 <150> PRIOR APPLICATION NUMBER: 60/450,644
27 <151> PRIOR FILING DATE: 2003-02-28
29 <160> NUMBER OF SEQ ID NOS: 83
31 <170> SOFTWARE: PatentIn version 3.2
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 1622
35 <212> TYPE: DNA
36 <213> ORGANISM: Homo sapiens
39 <220> FEATURE:
40 <221> NAME/KEY: CDS
41 <222> LOCATION: (96)..(1382)
43 <400> SEQUENCE: 1
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46 cggtagccg tctgagggtgc cggagctgcg ggagg atg gag ccg ctg aag gtg      113
47                               Met Glu Pro Leu Lys Val
48                               1           5
50 gaa aag ttc gca acc gcc aac agg gga aac ggg ctg cgc gcc gtg acc      161
51 Glu Lys Phe Ala Thr Ala Asn Arg Gly Asn Gly Leu Arg Ala Val Thr
52           10          15          20
54 ccg ctg cgc ccc gga gag cta ctc ttc cgc tcg gat ccc ttg gcg tac      209
55 Pro Leu Arg Pro Gly Glu Leu Leu Phe Arg Ser Asp Pro Leu Ala Tyr
56           25          30          35
58 acg gtg tgc aag ggg agt cgt ggc gtc gtc gac cgc tgc ctt ctc      257
59 Thr Val Cys Lys Gly Ser Arg Gly Val Val Cys Asp Arg Cys Leu Leu
60           40          45          50
62 ggg aag gaa aag ctg atg cga tgc tct cag tgc cgc gtc gcc aaa tac      305
63 Gly Lys Glu Lys Leu Met Arg Cys Ser Gln Cys Arg Val Ala Lys Tyr
64 55           60          65          70

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PATENT APPLICATION: US/10/788,847A

DATE: 12/13/2006
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Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\12132006\J788847A.raw

66	tgt	agt	gct	aag	tgt	cag	aaa	aaa	gct	tgg	cca	gac	cac	aag	cgg	gaa	353
67	Cys	Ser	Ala	Lys	Cys	Gln	Lys	Lys	Ala	Trp	Pro	Asp	His	Lys	Arg	Glu	
68					75				80					85			
70	tgc	aaa	tgc	ctt	aaa	agc	tgc	aaa	ccc	aga	tat	cct	cca	gac	tcc	gtt	401
71	Cys	Lys	Cys	Leu	Lys	Ser	Cys	Lys	Pro	Arg	Tyr	Pro	Pro	Asp	Ser	Val	
72					90				95				100				
74	cga	ctt	ctt	ggc	aga	gtt	gtc	ttc	aaa	ctt	atg	gat	gga	gca	cct	tca	449
75	Arg	Leu	Leu	Gly	Arg	Val	Val	Phe	Lys	Leu	Met	Asp	Gly	Ala	Pro	Ser	
76					105				110			115					
78	gaa	tca	gag	aag	ctt	tac	tca	ttt	tat	gat	ctg	gag	tca	aat	att	aac	497
79	Glu	Ser	Glu	Lys	Leu	Tyr	Ser	Phe	Tyr	Asp	Leu	Glu	Ser	Asn	Ile	Asn	
80					120				125			130					
82	aaa	ctg	act	gaa	gat	aag	aaa	gag	ggc	ctc	agg	caa	ctc	gta	atg	aca	545
83	Lys	Leu	Thr	Glu	Asp	Lys	Lys	Glu	Gly	Leu	Arg	Gln	Leu	Val	Met	Thr	
84	135				140				145			150					
86	ttt	caa	cat	ttc	atg	aga	gaa	gaa	ata	cag	gat	gcc	tct	cag	ctg	cca	593
87	Phe	Gln	His	Phe	Met	Arg	Glu	Glu	Ile	Gln	Asp	Ala	Ser	Gln	Leu	Pro	
88					155				160			165					
90	cct	gcc	ttt	gac	ctt	ttt	gaa	gcc	ttt	gca	aaa	gtg	atc	tgc	aac	tct	641
91	Pro	Ala	Phe	Asp	Leu	Phe	Glu	Ala	Phe	Ala	Lys	Val	Ile	Cys	Asn	Ser	
92					170				175			180					
94	ttc	acc	atc	tgt	aat	gcg	gag	atg	cag	gaa	gtt	ggt	gtt	ggc	cta	tat	689
95	Phe	Thr	Ile	Cys	Asn	Ala	Glu	Met	Gln	Glu	Val	Gly	Val	Gly	Leu	Tyr	
96					185				190			195					
98	ccc	agt	atc	tct	ttg	ctc	aat	cac	agc	tgt	gac	ccc	aac	tgt	tcg	att	737
99	Pro	Ser	Ile	Ser	Leu	Leu	Asn	His	Ser	Cys	Asp	Pro	Asn	Cys	Ser	Ile	
100					200				205			210					
102	gtg	ttc	aat	ggg	ccc	cac	ctc	tta	ctg	cga	gca	gtc	cga	gac	atc	gag	785
103	Val	Phe	Asn	Gly	Pro	His	Leu	Leu	Leu	Arg	Ala	Val	Arg	Asp	Ile	Glu	
104	215				220				225			230					
106	gtg	gga	gag	gag	ctc	acc	atc	tgc	tac	ctg	gat	atg	ctg	atg	acc	agt	833
107	Val	Gly	Glu	Glu	Leu	Thr	Ile	Cys	Tyr	Leu	Asp	Met	Leu	Met	Thr	Ser	
108					235				240			245					
110	gag	gag	cgc	cgg	aag	cag	ctg	agg	gac	cag	tac	tgc	ttt	gaa	tgt	gac	881
111	Glu	Glu	Arg	Arg	Lys	Gln	Leu	Arg	Asp	Gln	Tyr	Cys	Phe	Glu	Cys	Asp	
112					250				255			260					
114	tgt	ttc	cgt	tgc	caa	acc	cag	gac	aag	gat	gct	gat	atg	cta	act	ggt	929
115	Cys	Phe	Arg	Cys	Gln	Thr	Gln	Asp	Lys	Asp	Ala	Asp	Met	Leu	Thr	Gly	
116					265				270			275					
118	gat	gag	caa	gta	tgg	aag	gaa	gtt	caa	gaa	tcc	ctg	aaa	aaa	att	gaa	977
119	Asp	Glu	Gln	Val	Trp	Lys	Glu	Val	Gln	Glu	Ser	Leu	Lys	Lys	Ile	Glu	
120					280				285			290					
122	gaa	ctg	aag	gca	cac	tgg	aag	tgg	gag	cag	gtt	ctg	gcc	atg	tgc	cag	1025
123	Glu	Leu	Lys	Ala	His	Trp	Lys	Trp	Glu	Gln	Val	Leu	Ala	Met	Cys	Gln	
124	295				300				305			310					
126	gcg	atc	ata	agc	agc	aat	tct	gaa	cgg	ctt	ccc	gat	atc	aac	atc	tac	1073
127	Ala	Ile	Ile	Ser	Ser	Asn	Ser	Glu	Arg	Leu	Pro	Asp	Ile	Asn	Ile	Tyr	
128					315				320			325					
130	cag	ctg	aag	gtg	ctc	gac	tgc	gcc	atg	gat	gcc	tgc	atc	aac	ctc	ggc	1121

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132		330			335									340		
134	ctg	ttg	gag	gaa	gcc	ttg	tcc	tat	ggt	act	cgg	acc	atg	gag	cca	tac
135	Leu	Leu	Glu	Glu	Ala	Leu	Phe	Tyr	Gly	Thr	Arg	Thr	Met	Glu	Pro	Tyr
136		345				350								355		
138	agg	att	ttt	ttc	cca	gga	agc	cat	ccc	gtc	aga	ggg	gtt	caa	gtg	atg
139	Arg	Ile	Phe	Phe	Pro	Gly	Ser	His	Pro	Val	Arg	Gly	Val	Gln	Val	Met
140		360				365								370		
142	aaa	gtt	ggc	aaa	ctg	cag	cta	cat	caa	ggc	atg	ttt	ccc	caa	gca	atg
143	Lys	Val	Gly	Lys	Leu	Gln	Leu	His	Gln	Gly	Met	Phe	Pro	Gln	Ala	Met
144		375				380								385		390
146	aag	aat	ctg	aga	ctg	gct	ttt	gat	att	atg	aga	gtg	aca	cat	ggc	aga
147	Lys	Asn	Leu	Arg	Leu	Ala	Phe	Asp	Ile	Met	Arg	Val	Thr	His	Gly	Arg
148						395								400		405
150	gaa	cac	agc	ctg	att	gaa	gat	ttg	att	cta	ctt	tta	gaa	gaa	tgc	gac
151	Glu	His	Ser	Leu	Ile	Glu	Asp	Leu	Ile	Leu	Leu	Leu	Glu	Glu	Cys	Asp
152						410								415		420
154	gcc	aac	atc	aga	gca	tcc	taa	gggaacgcag	tcagagggaa	atacggcg	tg	g	g	g	g	1412
155	Ala	Asn	Ile	Arg	Ala	Ser										
156						425										
158	tgtctttgtt	gaatgcctta	ttgaggtcac	acactctatg	ctttgttagc	tgtgtgaacc										1472
160	tctcttattg	gaaattctgt	tccgtgtttg	tgttaggtaaa	taaaggcaga	catggttgc										1532
162	aaaccacaag	aatcattagt	tgttagagaag	cacgattata	ataaattcaa	aacatttggt										1592
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179					20				25					30		
182	Ser	Asp	Pro	Leu	Ala	Tyr	Thr	Val	Cys	Lys	Gly	Ser	Arg	Gly	Val	Val
183					35				40					45		
186	Cys	Asp	Arg	Cys	Leu	Leu	Gly	Lys	Glu	Lys	Leu	Met	Arg	Cys	Ser	Gln
187					50				55					60		
190	Cys	Arg	Val	Ala	Lys	Tyr	Cys	Ser	Ala	Lys	Cys	Gln	Lys	Lys	Ala	Trp
191		65				70					75				80	
194	Pro	Asp	His	Lys	Arg	Glu	Cys	Lys	Cys	Leu	Lys	Ser	Cys	Lys	Pro	Arg
195					85				90					95		
198	Tyr	Pro	Pro	Asp	Ser	Val	Arg	Leu	Leu	Gly	Arg	Val	Val	Phe	Lys	Leu
199					100				105					110		
202	Met	Asp	Gly	Ala	Pro	Ser	Glu	Ser	Glu	Lys	Leu	Tyr	Ser	Phe	Tyr	Asp
203					115				120					125		
206	Leu	Glu	Ser	Asn	Ile	Asn	Lys	Leu	Thr	Glu	Asp	Lys	Lys	Glu	Gly	Leu
207					130				135					140		
210	Arg	Gln	Leu	Val	Met	Thr	Phe	Gln	His	Phe	Met	Arg	Glu	Glu	Ile	Gln
211		145				150								155		160

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/788,847A

DATE: 12/13/2006
TIME: 16:15:05

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\12132006\J788847A.raw

214 Asp Ala Ser Gln Leu Pro Pro Ala Phe Asp Leu Phe Glu Ala Phe Ala
 215 165 170 175
 218 Lys Val Ile Cys Asn Ser Phe Thr Ile Cys Asn Ala Glu Met Gln Glu
 219 180 185 190
 222 Val Gly Val Gly Leu Tyr Pro Ser Ile Ser Leu Leu Asn His Ser Cys
 223 195 200 205
 226 Asp Pro Asn Cys Ser Ile Val Phe Asn Gly Pro His Leu Leu Leu Arg
 227 210 215 220
 230 Ala Val Arg Asp Ile Glu Val Gly Glu Leu Thr Ile Cys Tyr Leu
 231 225 230 235 240
 234 Asp Met Leu Met Thr Ser Glu Glu Arg Arg Lys Gln Leu Arg Asp Gln
 235 245 250 255
 238 Tyr Cys Phe Glu Cys Asp Cys Phe Arg Cys Gln Thr Gln Asp Lys Asp
 239 260 265 270
 242 Ala Asp Met Leu Thr Gly Asp Glu Gln Val Trp Lys Glu Val Gln Glu
 243 275 280 285
 246 Ser Leu Lys Lys Ile Glu Glu Leu Lys Ala His Trp Lys Trp Glu Gln
 247 290 295 300
 250 Val Leu Ala Met Cys Gln Ala Ile Ile Ser Ser Asn Ser Glu Arg Leu
 251 305 310 315 320
 254 Pro Asp Ile Asn Ile Tyr Gln Leu Lys Val Leu Asp Cys Ala Met Asp
 255 325 330 335
 258 Ala Cys Ile Asn Leu Gly Leu Leu Glu Glu Ala Leu Phe Tyr Gly Thr
 259 340 345 350
 262 Arg Thr Met Glu Pro Tyr Arg Ile Phe Phe Pro Gly Ser His Pro Val
 263 355 360 365
 266 Arg Gly Val Gln Val Met Lys Val Gly Lys Leu Gln Leu His Gln Gly
 267 370 375 380
 270 Met Phe Pro Gln Ala Met Lys Asn Leu Arg Leu Ala Phe Asp Ilé Met
 271 385 390 395 400
 274 Arg Val Thr His Gly Arg Glu His Ser Leu Ile Glu Asp Leu Ile Leu
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 285 <213> ORGANISM: Artificial Sequence
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 288 <223> OTHER INFORMATION: An Artificially Synthesized siRNA Sequence
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/788,847A

DATE: 12/13/2006
TIME: 16:15:05

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\12132006\J788847A.raw

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321	<213> ORGANISM: Artificial Sequence	
323	<220> FEATURE:	
324	<223> OTHER INFORMATION: An Artificially Synthesized siRNA Sequence	
326	<400> SEQUENCE: 6	
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331	<211> LENGTH: 55	
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333	<213> ORGANISM: Artificial Sequence	
335	<220> FEATURE:	
336	<223> OTHER INFORMATION: An Artificially Synthesized siRNA Sequence	
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339	caccaacaaa ctgactgaag ataagttcaa gagaaggtgc tccatccata agttt	55
342	<210> SEQ ID NO: 8	
343	<211> LENGTH: 55	
344	<212> TYPE: DNA	
345	<213> ORGANISM: Artificial Sequence	
347	<220> FEATURE:	
348	<223> OTHER INFORMATION: An Artificially Synthesized siRNA Sequence	
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354	<210> SEQ ID NO: 9	
355	<211> LENGTH: 55	
356	<212> TYPE: DNA	
357	<213> ORGANISM: Artificial Sequence	
359	<220> FEATURE:	
360	<223> OTHER INFORMATION: An Artificially Synthesized siRNA Sequence	
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374	<400> SEQUENCE: 10	
375	aaaaaacactcg taatgacatt tcaactctct tgaagttgaa atgtcattac gagtt	55

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/13/2006
PATENT APPLICATION: US/10/788,847A TIME: 16:15:06

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\12132006\J788847A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:37; N Pos. 21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40
Seq#:44; N Pos. 485,486,487,488,489

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

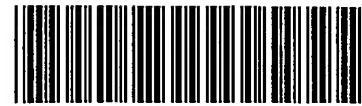
Seq#:80

VERIFICATION SUMMARY DATE: 12/13/2006
PATENT APPLICATION: US/10/788,847A TIME: 16:15:06

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\12132006\J788847A.raw

L:705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:480

**Raw Sequence Listing before editing
(for reference only)**



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,847A

DATE: 12/08/2006

TIME: 14:46:51

Input Set : A:\25371-021CIP Sequence Listing.txt
 Output Set: N:\CRF4\12082006\J788847A.raw

3 <110> APPLICANT: Nakamura, Yusuke
 4 Furukawa, Yoichi

6 <120> TITLE OF INVENTION: Gene and Protein Relating to Hepatocellular Carcinoma and
 Methods

7 of Use Thereof
 9 <130> FILE REFERENCE: 25371-021 CIP
 11 <140> CURRENT APPLICATION NUMBER: US 10/788,847A
 12 <141> CURRENT FILING DATE: 2004-02-27
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP02/09876
 15 <151> PRIOR FILING DATE: 2002-09-25
 17 <150> PRIOR APPLICATION NUMBER: US 60/324,261
 18 <151> PRIOR FILING DATE: 2001-09-25
 20 <150> PRIOR APPLICATION NUMBER: US 60/391,666
 21 <151> PRIOR FILING DATE: 2002-06-26
 23 <150> PRIOR APPLICATION NUMBER: CASN 2,399,569
 24 <151> PRIOR FILING DATE: 2002-08-23
 26 <150> PRIOR APPLICATION NUMBER: 60/450,644
 27 <151> PRIOR FILING DATE: 2003-02-28
 29 <160> NUMBER OF SEQ ID NOS: 83
 31 <170> SOFTWARE: PatentIn version 3.2

Does Not Comply
 Corrected Diskette Needed
 (pg.1)

ERRORED SEQUENCES

1623 <210> SEQ ID NO: 83
 1624 <211> LENGTH: 30
 1625 <212> TYPE: DNA
 1626 <213> ORGANISM: Artificial Sequence
 1628 <220> FEATURE:
 1629 <223> OTHER INFORMATION: An Artificially Synthesized Oligonucleotide Sequence
 1631 <400> SEQUENCE: 83
 1632 gcgggaggat ggacccgctg aaggtggaaa
 E--> 1638 1
Q deleted

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/08/2006
PATENT APPLICATION: US/10/788,847A TIME: 14:46:52

Input Set : A:\25371-021CIP Sequence Listing.txt
Output Set: N:\CRF4\12082006\J788847A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:80

VERIFICATION SUMMARY DATE: 12/08/2006
PATENT APPLICATION: US/10/788,847A TIME: 14:46:52

Input Set : A:\25371-021CIP Sequence Listing.txt
Output Set: N:\CRF4\12082006\J788847A.raw

L:705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:480
L:1638 M:254 E: No. of Bases conflict, this line has no nucleotides.